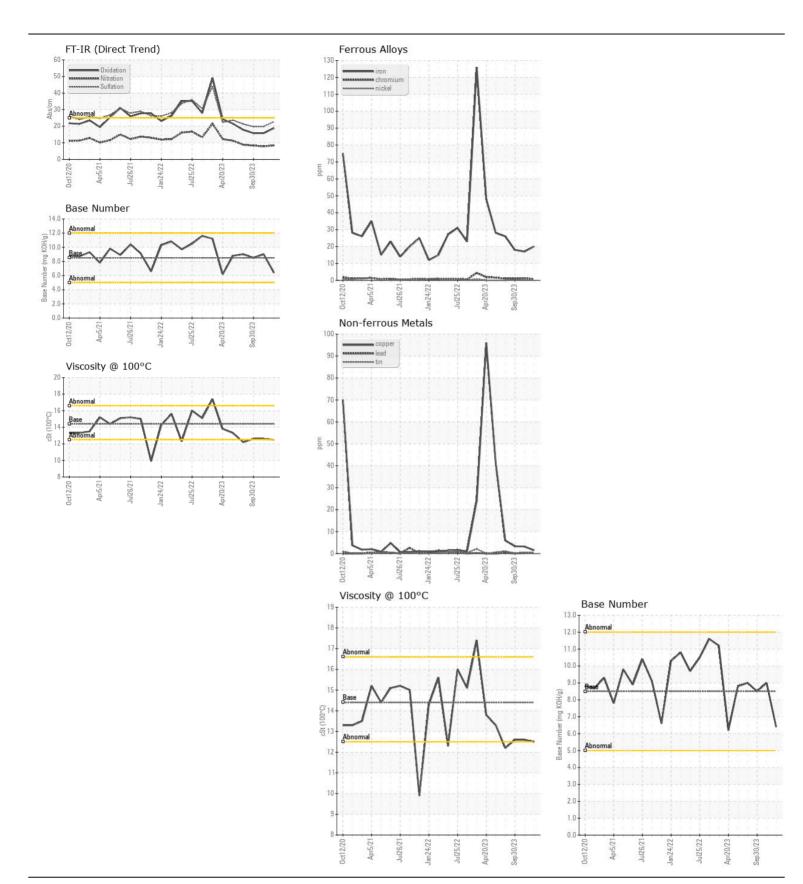
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id

12969 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info	21111071011	WC0928960	WC0841796	WC084172
	Sample Date		Client Info		29 Apr 2024	25 Nov 2023	30 Sep 202
	Machine Age	mls	Client Info		245840	0	217618
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	20	17	18
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	4	3	3
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	2	3	3
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	7	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	5	4
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.8	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	19.8	19.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		285	53	5
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	13	0
	Molybdenum	ppm	ASTM D5185m	100	84	88	78
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		427	1201	1112
	Calcium	ppm	ASTM D5185m		1278	1379	1260
	Phosphorus	ppm	ASTM D5185m		977	1326	1122
	Zinc	ppm	ASTM D5185m		1210	1610	1436
	Sulfur	ppm	ASTM D5185m		3416	4530	3898
	Oxidation	Abs/.1mm	*ASTM D7414		18.8	15.8	15.8
	Base Number (BN)				6.4	9.0	8.5
	Visc @ 100°C	cSt	ASTM D445	14.4	12.5	12.6	12.6







Certificate L2367

Laboratory Sample No.

: WC0928960 Lab Number : 06190091 Unique Number : 11046843 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** : 28 May 2024

: 28 May 2024 - Wes Davis Diagnosed

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105

Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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